Naval Station Mayport.

The Navy Environmental Leadership Program (NELP) Team AT WORK

2002 Projects Are Diverse and Innovative

The accomplishments of the Navy Environmental Leadership Program (NELP) at Naval Station (NS) Mayport in 2002 demonstrate the strength of leadership and teamwork of this Navy environmental program.

NS Mayport NELP is assisted by a focus group comprised of individuals from selected commands. The focus group is responsible for expanding the application of technology, innovation and leadership within the Navy and Marine Corps family. The focus group reviews new ideas and initiatives to assist with daily operations, minimize the impacts on our environment, and promote environmental stewardship.

The focus group also maintains the Navy's commitment to environmental excellence by managing the following NELP sponsored projects.

Model SIMA Construction

This project is a cooperative effort with NELP, Naval Sea Systems Command (NAVSEA), Naval Surface Warfare Center, Carderock Division (NSWCCD) and selected contractors to accomplish the following objectives:

- Construct a Shore Intermediate Maintenance Activity (SIMA) building addition,
- Provide Post Construction Award Services (PCAS),
- Provide integrated operating manuals specific to Paint Shop71A, including consolidated documentation for NAVSEA requirements and military specifications, process flow charts, on-site Quality Assurance and training;
- Remove and replace an underground storage tank; installation of a new fire protection system for the new SIMA addition; and
- Install and test a new paint booth.

Analysis of the Navy's On-Scene Commander Function and Spill Prevention Countermeasure and Control Risk

This project reviews Business Process Re-Engineering (BPR), including analysis and recommended improvements to the Navy's On-Scene

Naval Station Mayport.

Left to right: Diane Lancaster, NELP Manager, NELP Focus Group Members B.K. Moring and ENS Lauren Jacobson review one of the catch basin inserts being tested by NELP at NS Mayport.

Commander (NOSC) and Spill Prevention Countermeasure and Control (SPCC) programs. The project includes modification, development and implementation of appropriate policies; training and procedures to implement recommendations; and development of Plans of Action and Milestones (POA&M) for executing all activities.

Ship's Heat Exchanger Scale Prevention

This project includes installation and evaluation of an alternative non-chemical technology to reduce and prevent scale build up on heat exchangers in the ship's masking-air system. The device was installed on the USS The Sullivans and uses a crystal growth-enhancement process referred to as epitaxial nucleation. The test project will be evaluated when the ship returns from deployment.

Ships Hazardous Material List (SHML) Reduction

The goal of this project is to reduce the number of hazardous and toxic materials on the SHML, by investigating non-hazardous material (HAZMAT) substitution opportunities. This effort is expected to reduce environmental impact and personnel exposure, and in turn will reduce the cost to store, use and dispose of HAZMAT.

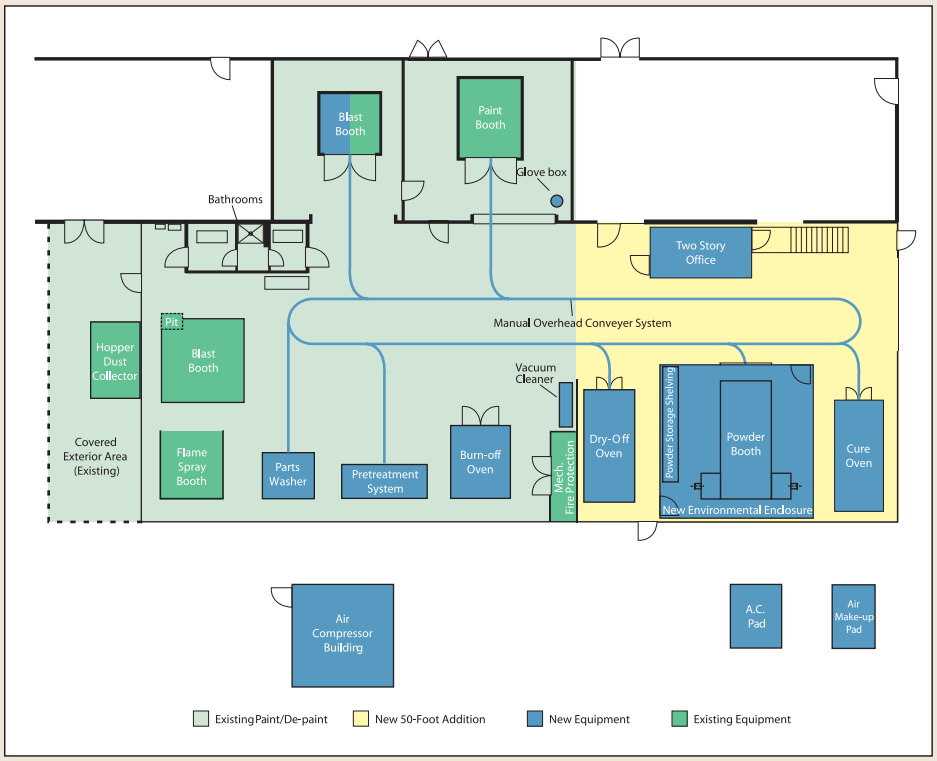
Air Sparged Hydrocyclone Unit Operational and Maintenance Manuals

This project includes production of implementation manuals and Standard Operating Procedures (SOPs), Operational and Maintenance (O&M) manuals, spare part lists, training manuals, and treatment cost calculation tables for the Air Sparged Hydrocyclone (ASH) unit for treating of Aqueous Fire Fighting Foam (AFFF)-contaminated bilges. Demonstrations were conducted on other waste stream treatment processes including oil-contaminated sewage.

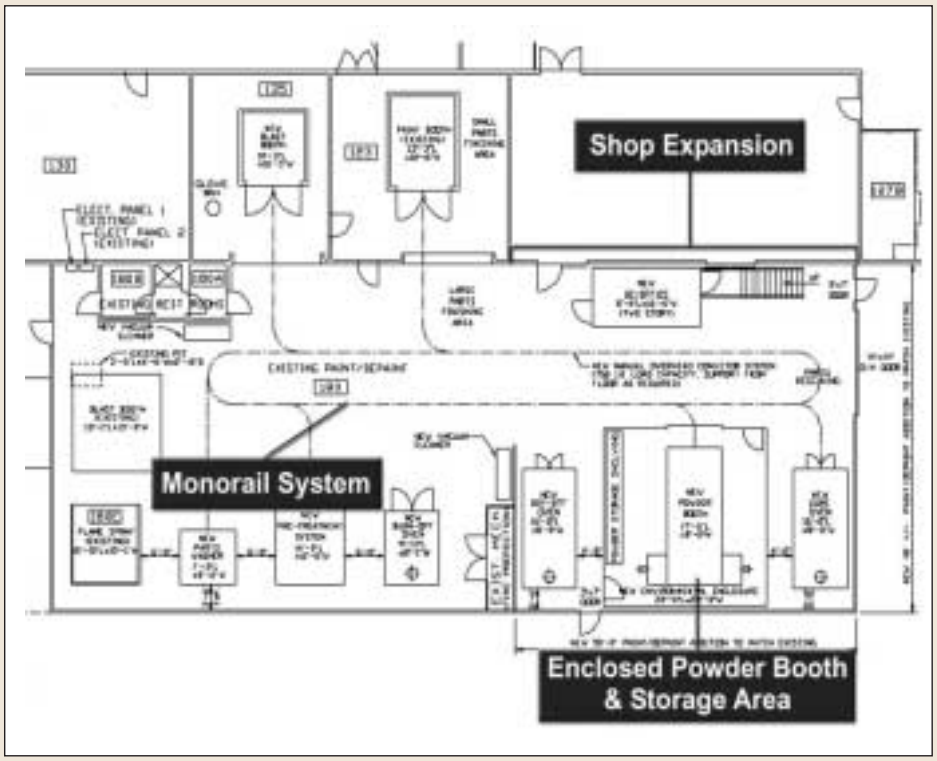
Regional Coordination of Coating Activities

This project is a coordinated effort with NSWCCD and contractors to study current coating/decoating capabilities in Air, Surface, and Subsurface Repair Facilities in the Fleet Concentration Area (FCA). The study will:

The Air Sparged Hydrocyclone (ASH) unit utilizes sparged air cyclonic technology that separates oily particles and Aqueous Film-Forming Foam (AFFF) from water.



SIMA floor plan.



The additions for SIMA.

The Chief of Naval Operations chartered NELP at NS Mayport in 1993. The mission of NELP is to support Navy warfighter operational readiness through the identification, demonstration and communication of innovative ways to perform daily operations that minimize the impacts on our environment and promote environmental stewardship. The program serves as a test bed for new and innovative technology and focused management that addresses the full spectrum of environmental issues. NELP exports its successes and lessons learned throughout the Navy and Marine Corps family.

To learn more about NELP, contact Diane Lancaster, NELP Manager and LCDR Joseph Campisano, NELP Officer or visit the NELP website at www.nelp.navy.mil.

Solid waste material at NS Mayport.

- Investigate the feasibility of coordinating and centralizing common coating/de-coating processes regardless of community source (i.e. combine coating of aircraft and ship radomes at SIMA or Naval Air Depots (NADEPs)),
- Conduct cost benefit analysis of centralizing the coating/de-coating painting process with particular focus on high-capital costs processes, and
- Ensure the best coating practices are transitioned throughout FCA.

The goal of this task is to lessen HAZMAT consumption and hazardous waste (HAZWASTE) generation through this across the board consolidation. A summary of the best coating practices will be delivered upon completion of this project.

Regional Solid Waste (SW) Reduction

Executive Order (EO) 13101 requires 40% reduction of SW by 2005, which places a high priority on Navy SW reduction and recycling. The objective of this project is to further investigate recommendations for recycling and return on investment (ROI) opportunities identified in fiscal year 2000 work done at NS Mayport. Regional opportunities for consolidation, management and payback of recycling efforts are also being investigated.

Empty Hazardous Material Container Management

Numerous problems surround the disposal of containers that contained previously hazardous materials. Some of the problems that increase management and disposal cost include determination of "empty"; varying management procedures at DoD installations; and inability to empty some types of containers. The purpose of this project is to conduct research on commercial and DoD-wide operations to determine Best Management Practices (BMPs); perform a survey and comparison of federal and state regulations for management and disposal of empty containers; investigate current material packaging manufacturers to determine if alternate containers are available to reduce management and disposal problems; analyze alternative containers vice disposal of standard containers.

Regional Geographic Information System Database Baseline Survey and Stand-up

A baseline survey is being conducted at the 9 Commander, U.S. Atlantic Fleet (CINCLANTFLT) installations in the Commander, Naval Region Southeast (CNRSE) area to determine their status of Geographic Information System (GIS) implementations and quality and quantity of environmental

Hazardous waste containers at NS Mayport.

Installation of a stormwater catch basin drain insert at NS Mayport.

USS The Sullivans was used in testing the Afloat Rag Recycling Program.

databases. The project includes compiling data into a standardize format. Once the data has been compiled, the contractor will provide recommendations and an implementation schedule to reach a long term goal of establishing a regional data base command center that is tied into all installations' GIS system and databases in order to efficiently conduct data calls.

The system will allow the regional center to generate standard reports and communicate regularly with regulatory agencies and community stakeholders to disseminate information on major environmental programs including permits, contaminated sites, storage tanks, HAZWASTE storage, etc.

Stormwater Treatment Systems

NELP used a fiscal year 2000 baseline and study program conducted by Commander, Naval Region Southwest (CNRSW) to perform a demonstration project that included purchase and installation of two types of catch basin inserts that showed the best overall results from the CNRSW study. The inserts are designed to remove oil, grease, and solid materials from stormwater before discharging into the St. Johns River.

Evaluate Command Core System Modules Beyond the Air Program Information Management System

NELP is evaluating and identifying a faster and more effective method of collecting air data from the Air Program Information Management System (APIMS). This information would support the stringent environmental monitoring and reporting requirements of the Clean Air Act, CLF N465 issued in March 2001.

Afloat Rag Recycling Program

This project modifies the existing Naval Supply Center shop towel contract to allow for government purchase of rags and with contractor recycling. The program is being demonstrated aboard two ships, USS The Sullivans and USS Vicksburg. At the conclusion of the project, a rag life cycle cost evaluation and lessons learned will be completed.

To learn more about NELP, contact Diane Lancaster, NELP Manager and LCDR Joseph Campisano, NELP Officer or visit the NELP website at www.nelp.navy.mil. ⚓

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